

IN THE CLAIMS

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Please amend the claims as follows.

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1. (Currently Amended) A transmission system for transmitting a signal (11) from a transmitter (10) to a receiver (12), the receiver (12) comprising:

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an interference absorption circuit (20) for detecting interference components included in the signal (11) and for substantially removing, during a time interval ( $\Delta t$ ), the interference components from the signal; (11), ~~characterized in that~~

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wherein the interference absorption circuit (20) is arranged for adapting the time interval ( $\Delta t$ ) in dependence on the duration of the individual interference components.

2. (Currently Amended) A transmission system according to Claim 1, ~~characterized in that~~ wherein the time interval ( $\Delta t$ ) is substantially equal to the duration of the individual interference components.

3. (Currently Amended) A transmission system according to Claim 1 ~~or~~ 2, ~~characterized in that~~ wherein the interference absorption circuit (20) comprises a circuit input (22) for receiving the signal (11), interference detection means (26) coupled to the circuit input (22) for detecting the interference components included in the signal (11) and interference removal means (28) coupled to the circuit input (22) for substantially removing the interference components from the signal (11), an output of the interference detection means (26) being coupled to an input of the interference removal means (28).

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4. (Currently Amended) A transmission system according to Claim 3, ~~characterized in that~~ wherein the interference detection means (26) ~~is~~ are arranged for generating and supplying to the output an interference presence signal (27) indicative of the presence of the interference components in the signal (11), the interference removal means (28) being arranged for substantially removing the interference components from the signal (11) in dependence on the interference presence signal (27) received at the input.

5. (Currently Amended) A transmission system according to Claim 4, ~~characterized in that~~ wherein the interference detection means (26) ~~is~~ are arranged for generating the interference presence signal (27) in dependence on the duration of the individual interference components.

6. (Currently Amended) A transmission system according to Claim ~~4, 3, 4 or~~  
~~5, characterized in that~~ wherein the interference detection means (26) comprise timing means  
(68) for generating the interference presence signal (27).

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7. (Currently Amended) A transmission system according to Claim 6,  
~~characterized in that~~ wherein the interference detection means (26) further comprise an  
interference detector (66) coupled to the timing means (68) for detecting the interference  
components in the signal (11), the timing means (68) comprising a multiple triggerable pulse  
timer, the interference detector (66) being arranged for generating and supplying to the timing  
means (68) a number of trigger pulses, the number of trigger pulses being dependent on the  
duration of the interference components.

8. (Currently Amended) A transmission system according to Claim 7,  
~~characterized in that~~ wherein the interference absorption circuit (20) comprises a desensitizer  
(67) for temporarily disabling at least one of the interference detection means (26) and ~~for~~ the  
interference removal means (28) when a repetition rate of the interference components is too  
high.

9. (Currently Amended) A transmission system according to Claim 3 ~~any one of the preceding Claims, characterized in that~~ wherein the interference absorption circuit (20) further comprises delay means (24) for delaying the signal (11), the interference removal means (28) being coupled to the circuit input (22) via the delay means (24), the delay introduced by the delay means (24) being substantially equal to the delay introduced by the interference detection means (26).

10. (Currently Amended) A receiver (12) for receiving a signal (11) from a transmitter (10), the receiver (12) comprising:

an interference absorption circuit (20) for detecting interference components included in the signal (11) and for substantially removing, during a time interval ( $\Delta t$ ), the interference components from the signal; (11), ~~characterized in that~~

wherein the interference absorption circuit (20) is arranged for adapting the time interval ( $\Delta t$ ) in dependence on the duration of the individual interference components.

11. (Currently Amended) An interference absorption circuit (20) for detecting interference components included in a signal (11) and for substantially removing, during a time interval ( $\Delta t$ ), the interference components from the signal (11), ~~characterized in that~~ wherein the interference absorption circuit (20) is arranged for adapting the time interval ( $\Delta t$ ) in dependence on the duration of the individual interference components.

12. (Currently Amended) A method, comprising the steps of:  
detecting interference components included in a signal; ~~(11)~~ and of  
substantially removing, during a time interval ~~( $\Delta t$ )~~, the interference components from the  
signal; ~~(11)~~, ~~characterized in that~~  
wherein the time interval ~~( $\Delta t$ )~~ is adapted in dependence on the duration of the individual  
interference components.

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Cont 13. (New) The method of Claim 12, wherein the time interval is substantially  
equal to the duration of the individual interference components.

14. (New) The method of Claim 12, further comprising generating an  
interference presence signal indicative of the presence of the interference components in the  
signal; and  
wherein substantially removing the interference components comprises substantially  
removing the interference components from the signal in dependence on the interference  
presence signal.

15. (New) The method of Claim 14, wherein generating the interference  
presence signal comprises generating the interference presence signal in dependence on the  
duration of the individual interference components.

16. (New) The method of Claim 12, wherein detecting the interference components comprises:

generating a number of trigger pulses, the number of trigger pulses being dependent on the duration of the interference components;

triggering a multiple triggerable pulse timer using the number of trigger pulses; and

generating an interference presence signal at the multiple triggerable pulse timer, the interference presence signal comprising information related to the duration of the individual interference components.

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17. (New) The method of Claim 12, further comprising temporarily disabling at least one of an interference detection module and an interference removal module when a repetition rate of the interference components is too high.

18. (New) The method of Claim 12, further comprising delaying the signal by a delay; and

wherein the delay introduced into the signal is substantially equal to a delay introduced during the step of substantially removing the interference components from the signal.

19. (New) The receiver of Claim 10, wherein the interference absorption circuit comprises:

a circuit input for receiving the signal;

an interference detection module coupled to the circuit input for detecting the interference components included in the signal; and

an interference removal module coupled to the circuit input for substantially removing the interference components from the signal, an output of the interference detection module being coupled to an input of the interference removal module.

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20. (New) The receiver of Claim 19, wherein:

the interference detection module is arranged for generating and supplying to the output an interference presence signal indicative of the presence of the interference components in the signal; and

the interference removal module is arranged for substantially removing the interference components from the signal in dependence on the interference presence signal received at the input.

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